

FORCED AIR SNOW SHOVEL

CROSS-REFERENCE TO RELATED APPLICATIONS

Not Applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not Applicable

REFERENCE TO SEQUENCE LISTING, A TABLE, OR A COMPUTER PROGRAM LISTING COMPACT DISC APPENDIX

Not Applicable

BACKGROUND OF THE INVENTION

The present invention relates generally to snow moving devices, and more particularly to a snow moving device that may use forced air as a means to remove snow from a horizontal surface. This utility patent application claims the benefit of provisional application No. 60/451,665 filed March 5, 2003

A recurring problem for homeowners and business during the winter months is the removal of snow from sidewalks, driveways and parking lots. Such snow removal is frequently the cause of heart attacks, strokes, and many lesser ailments such as muscle strains and sprains. The most commonly used method of snow removal consists of the snow shovel, which while inexpensive and simple to operate, requires substantial muscular effort in order to remove any significant quantities of snow. The major problem with the common snow shovel is that the shovel with a load of snow must be lifted and thrown a distance to clear the surface. With the aging of the population, there is a need to alleviate as much as possible the significant burden of lifting and throwing of snow.

Previous attempts to alleviate the problem have concentrated in the area of powered mechanical snow removal devices using either a single or dual auger drive system. These devices are expensive, heavy, and require considerable storage areas. They are also primarily used to move large/deep accumulations of snow.

My invention is intended to address the need of many who have limited amounts of snow to remove and who do not have the space to store a large snow removal device yet still need a choice that will eliminate the need to lift and throw the accumulated snow. My invention, therefore, has the following objectives:

- a. to provide a snow removal device enabling the removal of snow without bending, stooping, or lifting the snow to be removed;
- b. to provide a device which is inexpensive for the consumer;
- c. to provide such snow removal device which is simple to store.

BRIEF SUMMARY OF THE INVENTION

The present invention provides a snow shoveling apparatus that satisfies the aforementioned need. The snow shoveling apparatus of the present invention has a tubular member that has a lower blade which impacts the snow, attached to the tubular member is a wheeled mobile frame. This configuration will alleviate the need to lift and throw the snow. The wheeled mobile frame is moved across the horizontal surface with the forced air directed through the tubular member thus creating enough air velocity to eject the snow off of the lower blade.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

In the following brief description, reference will be made to the attached drawing in which;

FIG. 1 is a perspective view of a forced air snow shoveling apparatus of the present invention.

FIG. 2 of the drawing is a side view of the tubular portion of one embodiment of the invention, as well as the vertical and horizontal shafts of the mobile frame.

FIG. 3 is a frontal perspective of the mobile frame of the apparatus.

FIG. 4 of the drawing is a top view of the invention, showing in particular, the tubular portion of the apparatus, the lower blade means with support ridges, as well as the supporting mobile frame.

DETAILED DESCRIPTION OF THE INVENTION

Referring to the drawings and particularly to FIG. 1, there is illustrated a forced air snow shoveling apparatus of the present invention; generally designated (10); the tubular member (11) basically includes a mobile frame (12) FIG. 3.

In the illustrated embodiment (FIG. 3), the mobile frame (12) includes a vertical shaft1 (20) and a vertical shaft2 (22), a horizontal shaft (34), an axle (28), and a pair of wheels (26). The tubular member (11) and the mobile frame (12) (embodiments illustrated in FIG. 1), are made of a substantially rigid material, such as plastic or the like. The tubular member (11) being cylindrical in design is fabricated in one continuous piece as shown in FIG.2. In the illustrated embodiment (FIG.3), the vertical shaft1 (20), vertical shaft2 (22), horizontal shaft (34), and axle fork (24) of the mobile frame (12) is made of a substantially rigid material such as plastic or the like. The mobile frame (12) assembly comprises an axle fork (24), an axle (28) mounted to the axle fork (24), and a pair of wheels (26) attached to the axle (28). The axle (28) has opposite ends laterally spaced in